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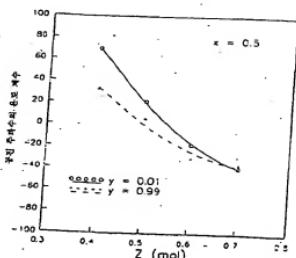
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(30) Priority:

(54) Title of Invention

DIELECTRIC COMPOSITION FOR HIGH-FREQUENCY WAVE

Representative drawing



(57) Abstract:

Dielectric ceramic composition for high-frequency wave is described which has high quality coefficient(Q value) and dielectric constant, and good temperature coefficient of resonance frequency. The dielectric ceramic composition may be represented as following formula: $(1-z)(Sr_{1-y}Ca_y)TiO_3 - zLa(Zn_{1-x}/2Mgx/2Ti_{1/2})O_3$, where, the range of x is from 0 to 1.0, the range of y is from 0.01 to 0.99 and the range of z is from 0.4 to 0.7. The dielectric composition according to the

invention has dielectric constant of 33.1 to 60.2, $Q_{10}(GHz)$ of 25,060 to 66,140, and the temperature coefficient of resonance frequency(hc)(TCF) ranging from -39.35 to 83.60, ppm/deg. C, which TCF being able to be controlled at a range of +/- 10ppm/deg. C depending on amount of addition of impurities, so that the ceramic composition may effectively be used in telecommunication system.

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요약

[특징] [구성] 1. 높은 품질 계수(0값)의 유전율을 가지며 또한 공진 주파수의 은도 계수가 양호한 것을 특징으로 하는 고

주파용 유전체 조성물